

**Commonwealth of Kentucky**  
**Division for Air Quality**  
***EXECUTIVE SUMMARY***

PROPOSED PERMIT V-06-052

ISP Chemicals, LLC

Calvert City, KY 42029

October 19, 2007

Carolina Alonso, Reviewer

SOURCE ID: 21-157-00003

SOURCE A.I. #: 2939

ACTIVITY ID: APE20060003

**SOURCE DESCRIPTION:**

On October 9, 2006, the source applied to the Division for the construction/operation of a chemical manufacturing facility in Calvert City, Kentucky.

ISP Chemicals Inc. (ISP) is a large Synthetic Organic Chemical plant that makes a wide variety of intermediates and specialty chemicals. The source is a major source, as defined by 401 KAR 52:020 Title V Permits, for the potential emissions of over 100 tons per year of sulfur dioxide (SO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), and volatile organic compounds (VOC), the potential of a single hazardous air pollutant (HAP) greater than 10 tons per year, and the potential combined HAP emissions greater than 25 tons per year.

The source is also a major source, as defined by 401 KAR 51:017 Prevention of Significant Deterioration of Air Quality (PSD), for potential emissions of over 100 tons per year of SO<sub>2</sub>, NO<sub>x</sub>, CO and VOC.

**PUBLIC AND AFFECTED STATE REVIEW:**

The affected states (Illinois, Missouri, and Tennessee) were notified of the issuance of the draft permit on September 15, 2006 via e-mail. On August 29, 2007, the public notice on availability of the draft permit and supporting material for comments by persons affected by the plant was published in *The Marshall County Tribune-Courier* in Benton, Kentucky. The public comment period expired 30 days from the date of publication.